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**Basic Imagery Interpretation Report**



**NATIONAL  
PHOTOGRAPHIC  
INTERPRETATION  
CENTER**

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**HSIAN AIRCRAFT ENGINE PLANT 430**

**STRATEGIC WEAPONS INDUSTRIAL FACILITIES**

**CHINA**

**FEBRUARY 1968**

Declass Review by NIMA / DoD

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hsi-an Aircraft Engine Plant 430		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
NA	34-22-48N 108-58-20E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet 0384-15HL, 3d ed, Jul 68, Scale 1:200,000 (SECRET)		

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## ABSTRACT

This report is a study of the chronological development of Hsi-an Aircraft Engine Plant 430. This is one of a series of reports on Chinese aircraft engine plants which provide data that will be used to evaluate Chinese development and production capabilities.

When first observed [ ] the plant appeared to be under construction. The most significant construction occurred [ ] the engine test building and the POL storage facility were both under construction, and were complete [ ] When last observed [ ] the entire facility appeared complete and operational.

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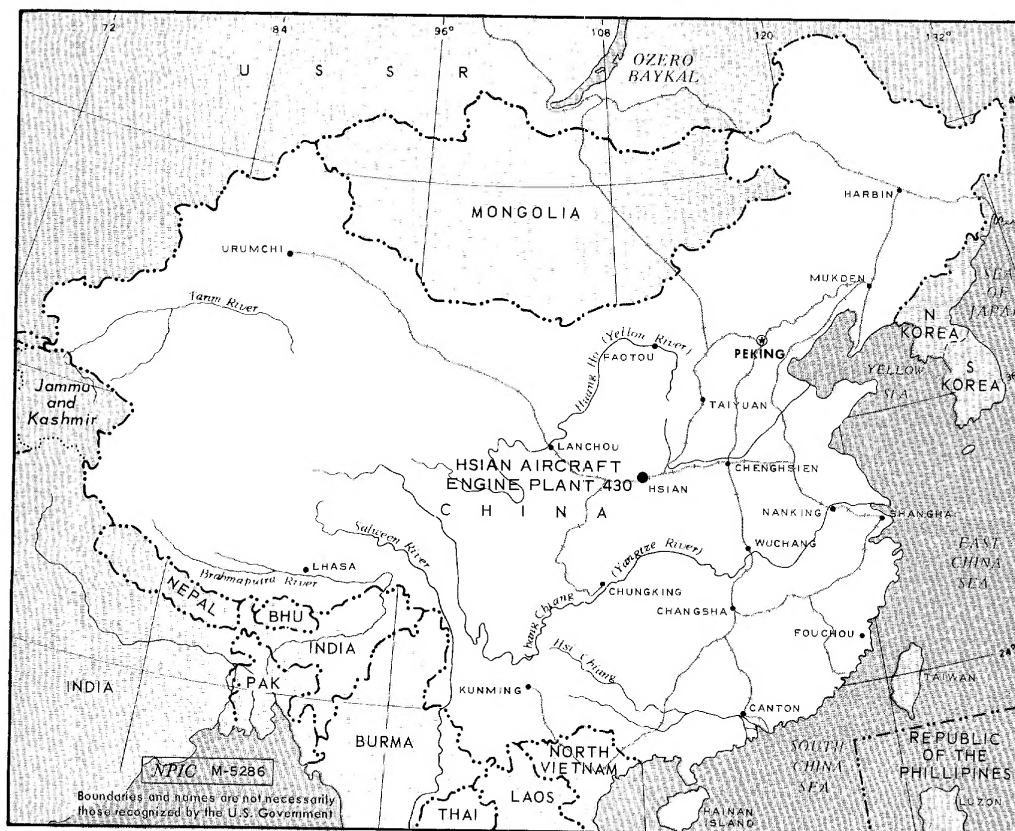


FIGURE 1. LOCATION MAP.

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## INTRODUCTION

Hsi-an Aircraft Engine Plant 430 (Figure 1) is located 6.5 nautical miles (nm) north of the center of Hsian, 3 nm south of the Wei-ho river, and is involved in the development, production, and testing of aircraft engines, including the probable production of turbojet engines and aircraft component parts.

There are two facilities that could be related to Hsi-an Aircraft Plant 430—Hsi-an Airframe Plant Yen-liang 172 located 22 nm north-northeast of Hsi-an Aircraft Engine Plant 430 and Wukung Aircraft Assembly and Repair Plant located 36 nm west-southwest.

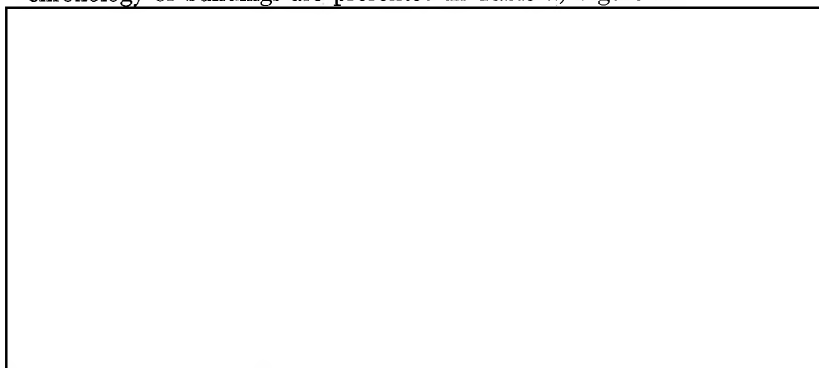
## BASIC DESCRIPTION

The components which make up Hsian Aircraft Engine Plant 430 include an engine test building, POL storage facility, assembly buildings, shop buildings, warehouses, and miscellaneous buildings.

The plant is road and rail served. The rail service within the plant is provided by four spur lines, two of which serve transshipment buildings. All four spur lines could also serve other buildings. The plant is served by a network of good all-weather roads.

The entire facility is enclosed by a single wall or fence; approximately 50 percent of the facility is double fenced and accesses have guard buildings. Electric power is probably supplied from the city of Hsian.

The functional identifications, dimensions, and the construction chronology of buildings are presented in Table 1, Figure 2.



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### Engine Test Building

The principal test structure in the plant is the engine test building, which consists of six parts labeled A, B, C, D, E, and F (Figure 3). Section A, an L-shaped engine preparation, servicing, and inspection area, [redacted]

Section B, a control and instrumentation area, [redacted] Sections C and F are single L-type test cells, each with individual exhaust towers, and [redacted] Sections D and E are double L-type cells, each containing two test cells, [redacted]

[redacted] The POL storage facility was completed at the same time as the engine test building and provides fuel to the engine test buildings by underground pipelines.

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### Housing and Support Area

The housing and support area is located immediately south of the plant and consists of four dining halls, two large apartment buildings, and approximately 230 buildings of varied sizes and heights, including small apartment buildings, numerous storage and support buildings, a probable hospital, and recreation facilities. Construction of the housing and support area was complete [redacted]

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Table 1. Data on Structure at Hsian Aircraft Engine Plant 430 (Items keyed to Figure 2)

Item	Probable Function	Comments
1	Shop bldg	
a	Admin & engineering section	
2	Engine test bldg	Two story
3	Warehouses (2)	For details see Figure 2
4	Assembly & shop bldg	
a	High-bay section	
b	Admin & engineering section	Two story
5	Shop bldg	
a	Admin & engineering section	
6	Assembly & shop bldg	Two story
a	High-bay section	
b	Admin & engineering section	
7	Assembly & shop bldg	
a	High-bay section	
b	Admin & engineering section	Two story
8	Shop bldg	
9	Shop bldg	
10	Shop bldg	
a	Admin & engineering section	
11	Admin & engineering bldg	
12	Admin & engineering bldg	
a	Admin & engineering section	Two story
13	Assembly & shop bldg	
a	High-bay section	
b	Admin & engineering section	Two story
14	Substation	A transformer servicing bldg adjacent
15	Shop bldg	
16	Admin & engineering bldg	
a	Admin & engineering section	Two story
17	Admin bldg	L-shaped, three story
18	Shop bldg	
a	Admin & engineering section	Two story
19	Shop bldg	
20	Forge & foundry bldg	
a	Admin & engineering section	Three story
21	Shop bldg	
22	Shop bldg	
23	Transshipment bldg	
a	Shipping & receiving section	Rail served
24	Shop bldg	
a	Admin & engineering section	Two story
b	Admin & engineering section	Two story
25	Transshipment bldg	Rail served
26	Shop bldg	This bldg is connected to adjacent bldg 28A by a corridor
a	Shop bldg	Four story
27	Steamplant	
28	Warehouse	
29	Warehouse	
30	Warehouse	
31	Warehouse	
32	Warehouse	
33	Warehouse	
34	Shop bldg	
35	Warehouse	
36	Warehouse	

(NOTE: Utility buildings, small warehouses, and other miscellaneous buildings are unnumbered)

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#### CHRONOLOGICAL DEVELOPMENT

This plant was first observed on photography [redacted]  
At that time it contained 12 buildings, with a total floorspace [redacted]

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[redacted] The most significant of the 12 structures observed were three large assembly or shop buildings (Figure 2, Items 6, 7, and 13).

The facility was greatly expanded [redacted] The most significant new structures were the engine test building (Item 2) and the POL storage facility, both of which were under construction

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[redacted] Floorspace added during this period amounted to approximately 1.1 million square feet and included an assembly or shop building (Item 4), shop buildings (Items 5, 8, 19, and 24), steam plant (Item 27), forge and foundry building (Item 20), and numerous warehouses and support buildings in addition to the engine test building and the POL storage facility. The housing and support area was approximately 70 percent complete by the end of this period.

The growth rate of this facility began to level off [redacted]  
One large shop building (Item 1), a large warehouse building (Item 36), and many smaller buildings were identified. The additional floorspace amounted [redacted] The test building (Item 2) and the POL storage facility were completed [redacted]

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[redacted] No significant new construction has been observed on photography [redacted]

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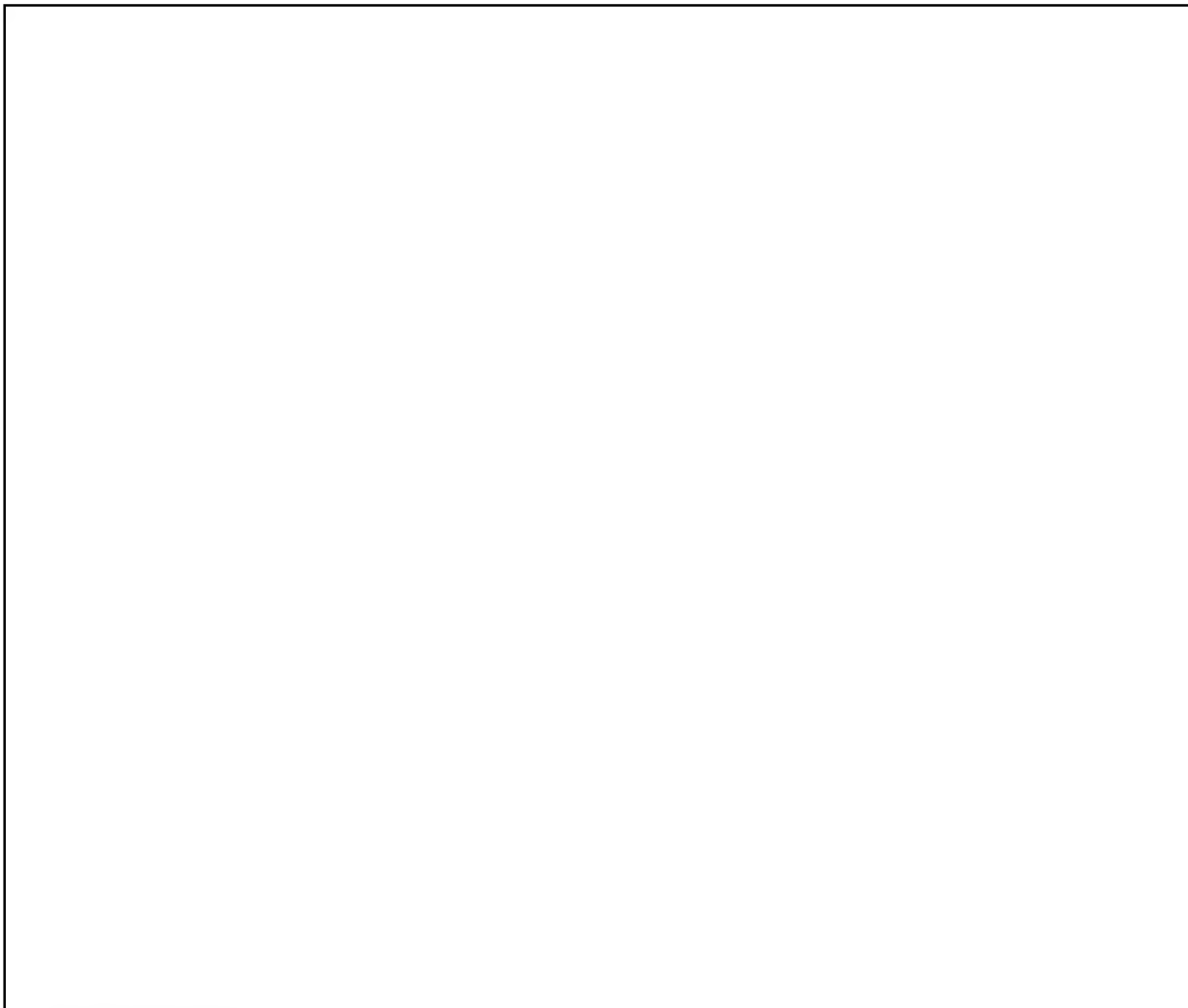
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## REFERENCES



## MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0384-15HL, 3d ed, Jul 68, Scale 1:200,000 (SECRET)

## REQUIREMENT

COMIREX 381-69

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